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SUMMARY OF TRADE AND TARIFF INFORMATION

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34

Prepared in Terms of the Tariff Schedules of the United States

RADIO APPARATUS

TSUS Items 685.10-685.34

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ORIGINAL

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UNITED STATES INTERNATIONAL TRADE COMMISSION

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FOREWORD

In 1977 the United States International Trade Commission initiated its current Summary of Trade and Tariff Information series of informational reports on the thousands of products imported into and exported from the United States. The summaries contain information on product uses, U.S. producers, and customs treatment, and include analyses of the basic factors affecting trends in consumption, production, and trade as well as those bearing on the competitiveness of U.S. industries in domestic and foreign markets.

This supplement is designed to maintain the usefulness of the original summary prepared for this commodity area by providing current consumption and trade statistics and information on significant developments since the initial summary's release. The current statistical tables and tariff schedule extracts contained in the looseleaf supplement can easily be substituted for the corresponding pages in the original summary.

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Overview

Since 1982, the market for radio apparatus has expanded rapidly. The divestiture of AT&T which occurred January 1, 1984, had a profound effect on markets for all types of communication products, including wireless. This combined with recent technological and regulatory breakthroughs in mobile telecommunications (including cordless telephones and cellular telephones) and the continued strength of the U.S. economy has induced rapid growth in radio communications products.

Estimated U.S. producers' shipments of radio apparatus increased from $4.7 billion in 1982 to $6.1 billion in 1984. Following that trend, apparent U.S. consumption increased from $5.1 billion to $7.0 billion during the period. Imports captured an increasing share of that market from 28 percent in 1982 ($1.4 billion) to 31 percent in 1984 ($2.2 billion). U.S. exports increased from $1.1 billion to $1.3 billion during 1982-84.

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SECOND SUPPLEMENT TO SUMMARY OF TRADE AND TARIFF INFORMATION ON RADIO APPARATUS, TSUS ITEMS 685.10-685.34 (PUBLISHED IN AUGUST 1981)

U.S. industry

The estimated number of companies producing radio apparatus increased from some 600 in 1982 to about 650 in 1984. The number of persons employed in this industry also increased, but at a slower pace, from 100,000 persons in 1982 to 105,000 in 1984.

The U.S. radio apparatus industry is a high-technology, capital-intensive industry in which product design and performance change rapidly. Almost all low-technology, labor-intensive products, particularly consumer radio apparatus, are produced overseas and imported. Frequently, the foreign production plant is owned by a U.S. parent which markets the products in the United States and abroad.

Emerging radio communications services including cellular radio, cordless telephone service, radio paging, AM stereo broadcasting, and satellite communications have provided large markets for U.S. and foreign producers of equipment. While some U.S. producers have tried producing cordless telephones, there are currently no known domestic producers. U.S. producers of the other products enumerated are experiencing the impact of import penetration. This is evidenced by three recent investigations in this product area, two on cellular communications equipment and one on paging receivers.

Customs treatment

Since 1982, there have been numerous changes in the customs treatment of these products. There were changes in the countries that were eligible for treatment under the Generalized System of Preferences (GSP). In addition, two final antidumping investigations and a preliminary investigation of a third antidumping case were completed. Also, the Trade and Tariff Act of 1984 caused further changes in classification and duty rates of these products.

Effective March 31, 1984, Hong Kong and South Korea were excluded from eligibility for GSP treatment for TSUS item 685.29 (selected miscellaneous radio products). Taiwan had already been excluded effective March 31, 1983.

The temporary legislation (Public Law 97-446) which had been in effect and which reduced the duty on clock radios to "free" expired on September 30, 1984. However, on October 30, 1984, with the implementation of the Trade and

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Tariff Act of 1984 (Public Law 98-573) the reduction of the duty rate on clock radios to "free" was again placed in effect and is scheduled to expire after December 31, 1986.

In addition to providing for an extension of the duty-free treatment of clock radios, the Trade and Tariff Act of 1984 occasioned the re-numbering of parts of the Tariff Schedules including all of the provisions for radio apparatus. These changes became effective January 1, 1985. Even though the changes were extensive, they did not affect the duty rate on any of these items. An excerpt from the TSUSA is reproduced in appendix A. In addition, appendix B shows a concordance between the TSUS and other classification systems.

Paging receivers, cell-site transmission apparatus incorporating reception apparatus, and cellular mobile telephones have been the subjects of antidumping investigations since 1982. On August 19, 1982, the Commission instituted investigation No. 731-TA-102 (Preliminary) under section 733(a) of the Tariff Act of 1930, on certain radio paging receivers from Japan. The Commission determined on October 4, 1982, that there was a reasonable indication that paging receivers from Japan were injuring the domestic industry. On February 1, 1983, the Department of Commerce determined dumping margins for such pagers, thus triggering the Commission's institution of a final investigation. On July 20, 1983, the Commission voted that imports of tone-only pagers were injuring the domestic industry, but that imports of display pagers were not injurious to the domestic industry.

On December 28, 1983, the Commission instituted 731-TA-163 (Preliminary) on imports from Japan of cell-site radio transmission apparatus incorporating reception apparatus having the capability of simultaneous two-way communications. 1/ On February 29, 1984, the Commission determined that there was a reasonable indication of injury to the domestic industry as a result of imports of these products from Japan. After the Commerce Department determined dumping margins, the Commission instituted a final investigation and on November 28, 1984 determined that an industry in the United States was being materially injured by imports of these products being sold at less than fair value.

On November 5, 1984, a petition was filed by Motorola, Inc. alleging that imports of cellular mobile telephones from Japan were being sold at less than fair value and were injuring the U.S. industry producing such articles. Accordingly, the Commission instituted investigation 731-TA-207 (Preliminary) and on December 17, 1984, determined that there was a reasonable indication that Motorolas allegations were true. On June 11, 1985, the Commerce Department determined preliminary dumping margins thus triggering the Commission's final investigation--731-TA-207 (Final). On November 26, 1985 the Commission determined in the affirmative that industries in the United States are being materially injured by reason of imports of cellular mobile telephones from Japan.

1/ In the industry, this article is called a transceiver. However, according to headnote 4 to part 5 of schedule 6 of the Tariff Schedules, these articles cannot be considered transceivers.

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U.S. consumption

U.S. consumption of radio apparatus has increased rapidly since 1982 from $5.1 billion in 1982 to $7.0 billion in 1984 for a total increase of 37 percent during the period (table 1, app. C). This rapid growth has been brought about by several factors. The continued strength of the U.S. economy; the divestiture of AT&T and other recent regulatory actions which have spawned siginificant activity in all forms of communications; the emergence of mobile personal communications products such as pagers, cordless telephones, and cellular telephones have had the combined effect of providing impetus for dramatic growth in the radio products industry. As a share of apparent U.S. consumption of radio apparatus, imports increased from 28 percent in 1982 to 31 percent in 1984.

Apparent consumption of radio receivers, which accounted for 37 percent of total consumption of all types of radio apparatus in 1984, increased from $2.0 billion in 1982 to $2.6 billion in 1984, or by 32 percent over the period (table 2, app. C). This reflects increased demand for radio pagers, personal consumer radio receivers, and radio receivers for military purposes. Apparent U.S. consumption of radio transceivers increased from $1.1 billion in 1982 to $1.4 billion in 1984, or by 25 percent over the time period (table 3, app. C). This upturn in this segment of the radio apparatus industry exemplifies the increasing popularity of land mobile communications systems for commercial and industrial uses. In 1984, apparent consumption of these products represented 20 percent of consumption of all radio apparatus. Consumption of "other radio apparatus" which includes such articles as cordless telephones, cellular telephones, microwave equipment, and parts of radio apparatus increased from $2.0 billion in 1982 to $3.0 billion in 1984, or by 50 percent (table 4, app. C). In 1984, consumption of these articles accounted for 43 percent of total consumption of radio apparatus.

U.S. production

Estimated U.S. producers' shipments of radio apparatus increased from $4.7 billion in 1982 to $6.1 billion in 1984, or by 28 percent. About 28 percent of these shipments were of radio receivers, 22 percent were of transceivers, and the remaining 49 percent were of other radio apparatus. Shipments of radio receivers increased 30 percent during 1982-84, or from $1.3 billion to $1.7 billion. Shipments of transceivers increased as well, from $1.2 billion in 1982 to $1.3 billion in 1984, for a total increase of almost 10 percent. Shipments of all other radio apparatus increased from $2.2 billion to $3.0 billion, or by 38 percent during 1980-84.

U.S. trade

U.S. imports.--U.S. imports of radio apparatus increased significantly from $1.4 billion in 1982 to $2.2 billion in 1984 or by more than 54 percent (table 5, app. C). This dramatic increase is attributable, at least in part, to the attractiveness of the United States as an export market for foreign producers. The U.S. market is a reflection of the relative strength of the U.S. economy vis-a-vis other countries and the high value of the U.S. dollar relative to other currencies (allowing imported goods to be relatively cheaper

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than U.S.-produced goods). This latter point is particularly true for consumer electronics where competition is keen and every price advantage is crucial. By far the largest source of imports of all types of radio apparatus is Japan, accounting for 33 percent of total imports in 1984. Imports from Japan increased significantly from $473.2 million in 1982 to $725.0 billion in 1984, a total increase of 53 percent. Imports under TSUS items 806.30 and 807.00 accounted for 20 percent of the total value of radio apparatus in 1984 with imports under 807.00 accounting for virtually all such imports. The following tabulation shows imports of radio apparatus under TSUS items 806.30 and 807.00 for 1984 by the countries listed in table 5.

(In thousands of dollars)

Source	U.S. imports under TSUS items 806.30 and 807.00 of--			Total imports under items 806.30 and 807.00
	Radio receivers	Radio transceivers	Other radio apparatus	
Japan	53	-	409	462
Taiwan	66	163	2,086	2,315
Mexico	120,584	8,747	35,834	165,165
Hong Kong	6,489	-	147	6,636
Canada	26,654	11,354	42,975	80,983
Singapore	1,821	-	69,093	70,914
S. Korea	52	-	115	167
Sweden	-	-	-	-
All other	74,490	56	44,710	119,256
Total	230,209	20,320	195,369	445,898

Imports of radio receivers, which accounted for 46 percent of total imports in 1984, increased from $743.4 million in 1982 to $995.4 million in 1984 an increase of 34 percent (table 6, app. C). Japan, Hong Kong, Mexico, and Brazil were the largest sources of such imports in 1984, accounting for 31 percent, 23 percent, 13 percent, and 7 percent, respectively.

U.S. imports of transceivers increased irregularly from $162.6 million in 1982 to $262.3 million in 1984, or by 61 percent for the period (table 7, app. C). Japan, was by far the largest source of such imports in 1984. These imports from Japan increased by over 125 percent from 1982 to 1984, or from $58.8 million to $133.2 million.

Total imports of "other radio apparatus" increased from $512.2 million in 1982 to $929.0 million in 1984, an increase of 81 percent during the period (table 8, app. C). In 1984, Japan, Taiwan, and Canada were the largest sources of such imports, accounting for 30 percent, 11 percent and 11 percent, respectively. Imports from these countries, collectively, increased from $268.5 million in 1982 to $485.4 million in 1984, or by 81 percent during the period.

U.S. exports.--U.S. exports of all types of radio apparatus increased from $1.1 billion in 1982 to $1.3 billion in 1984, or by 19 percent (table 9, app. C). Products generally exported are automobile radio receivers,

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commercial and industrial type radio reception apparatus, including satellite reception equipment and very high-technology types of radio apparatus which are generally classified in the "other radio apparatus" category. This category also encompasses parts and components of radio apparatus. Exports of these are important because many companies have labor-intensive assembly operations abroad. These companies export the components from the United States and assemble the products abroad. These products are sold worldwide including in the United States.

Exports of radio receivers increased from $114.8 million in 1982 to $144.7 million in 1984 (table 10, app. C). By far the largest market for U.S.-produced radio receivers in 1984 was Canada. Such exports consist of commercial/industrial types of radio receivers and also automobile radios which are used by a Canadian subsidiary of a U.S. auto maker for installation into Canadian-made motor vehicles. Exports of radio receivers to Canada increased by 49 percent, from $64.0 million in 1982 to $95.6 million in 1984. Such exports to Canada accounted for 66 percent of all exports of radio receivers in 1984.

Exports of transceivers, principally those for military and industrial uses, decreased from $287.2 million in 1982 to $237.1 million in 1984, or by 17 percent (table 11, app. C). Saudi Arabia continued to be the largest export market, accounting for 21 percent of total exports in 1984 (exports to no other country exceeded 8 percent of the total in that year). Much of the reason for the decrease in exports is the competition from producers which have the technology but produce in countries other than the United States.

Exports of other radio apparatus increased from $675.6 million in 1982 to $900.4 million in 1984, or by 33 percent (table 12, app. C). Mexico is the largest export market for U.S.-produced articles followed by Brazil and Saudi Arabia. Exports to these countries in 1984 amounted to $187.2 million, $80.3 million, and $79.1 million, respectively, and accounted for 28 percent, 9 percent, and 9 percent, respectively, of total exports.

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Appendix A

Selected Portions of the Tariff Schedules of the United States Annotated (1985)

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Explanation of the rates of duty applicable to radio apparatus

The rates of duty in column 1 are most-favored-nation (MFN) rates and are applicable to imported products from all countries except those Communist countries and areas enumerated in general headnote 3(d) of the Tariff Schedules of the United States (TSUS). The People's Republic of China, Hungary, Romania, and Yugoslavia are the only Communist countries currently eligible for MFN treatment. However, MFN rates do not apply if preferential tariff treatment is sought and granted to products of developing countries under the Generalized System of Preferences (GSP) or the Caribbean Basin Economic Recovery Act (CBERA), or to products of Israel or of least developed developing countries (LDDC's), as provided under the Special rates of duty column.

Preferential rates of duty in the Special column followed by the code "D" reflect the full U.S. MTN concession rates implemented without staging for particular products of LDDC's enumerated in general headnote 3(e)(vi) of the TSUS. Where no rate of duty is provided for LDDC's in the Special column for a particular tariff item, the rate of duty in column 1 applies.

The rates of duty in column 2 apply to imported products from those Communist countries and areas enumerated in general headnote 3(d) of the TSUS.

The GSP affords nonreciprocal tariff preferences to developing countries to aid their economic development and to diversify and expand their production and exports. The U.S. GSP, enacted in title V of the Trade Act of 1974, was implemented by Executive Order No. 11888 of November 24, 1975, and renewed in title V of the Trade and Tariff Act of 1984. It applies to merchandise imported on or after January 1, 1976, and is scheduled to remain in effect through July 4, 1993. It provides duty-free entry to eligible articles imported directly from designated beneficiary developing countries. Eligible articles are identified in the Special column with the duty rate of "Free" followed by an "A" or "A*." The designation "A" means that products of all beneficiary developing countries are eligible for benefits of the GSP, and "A*" indicates that products of certain developing countries, specified in general headnote 3(e)(v)(D) of the TSUS, are not eligible.

The CBERA affords nonreciprocal tariff preferences to developing countries in the Caribbean Basin area to aid their economic development and to diversify and expand their production and exports. The CBERA, enacted in title II of Public Law 98-67 and implemented by Presidential Proclamation 5133 of November 30, 1983, applies to merchandise entered, or withdrawn from warehouse for consumption, on or after January 1, 1984; it is scheduled to remain in effect until September 30, 1995. It provides duty-free entry to eligible articles imported directly from designated Basin countries, as reflected by the rate of duty "Free" followed by the code "E" in the Special column. (See general headnote 3(e)(i) and (vii) of the TSUS.)

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Preferential rates of duty in the Special column followed by the code "I" reflect the rates of duty applicable to products of Israel under the United States-Israel Free Trade Area Implementation Act of 1985, as provided in general headnote 3(e)(viii) of the TSUS. Where no rate of duty is provided for products of Israel in the Special column for a particular tariff item, the rate of duty in column 1 applies.

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Item	Stat. Suf-fix	Articles	Units of Quantity	Rates of Duty		
				1	Special	2
		Radiotelegraphic and radiotelephonic transmission and reception apparatus, etc. (con.):				
		Radiotelegraphic and radiotelephonic transmission and reception apparatus; radiobroadcasting and television transmission and reception apparatus, and parts thereof (con.):				
		Television apparatus, and parts thereof (con.):				
		Other television apparatus and parts thereof:				
685.06	00	Antennas (except parabolic reflectors)	No.....	4% ad val.	3.7% ad val.(D) Free (A,E,I)	35% ad val.
685.08		Other	.....	4% ad val.	3.7% ad val.(D) Free (E,I)	35% ad val.
	04	Converters, preamplifiers, line amplifiers, distribution amplifiers, and other amplifiers; directional couplers and other couplers; all the foregoing designed for cable television applications	X			
	06	Apparatus for the reception of television signals relayed by television satellite	No.			
		Video Players:				
	20	Magnetic tape players	No.			
	30	Other	No.			
	55	Other	X			
		Other:				
685.10	00	Radio receivers, other than solid-state (tubeless)	No.....	6% ad val.	Free (A,E,I)	35% ad val.
		Solid-state (tubeless) radio receivers:				
685.12		Designed for motor-vehicle installation	.....	8.6% ad val.	8% ad val.(D) Free (E,I)	35% ad val.
		Entertainment broadcast band receivers:				
	10	AM only	No.			
	15	AM/FM only	No.			
	23	Other	No.			
	50	Other	No.			
		Other:				
685.14		Entertainment broadcast band receivers	.....	7.1% ad val. 1/	6% ad val. (D,I,)1/ Free (A*,E)	35% ad val.
		Incorporating a digital clock or timer:				
	05	AM only	No.			
	11	Other	No.			
		Incorporating a clock or timer other than digital:				
	15	AM only	No.			
	21	Other	No.			

1/ Duty on certain entertainment broadcast band receivers temporarily suspended. See item 911.95 in part 1B, Appendix to the Tariff Schedules, and general headnote 3(d)(ii).

(3rd supp. 9/1/85)

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Item	Stat. Suffix	Articles	Units of Quantity	Rates of Duty		
				1	Special	2
		Radiotelegraphic and radiotelephonic transmission and reception apparatus, etc. (con.):				
		Radiotelegraphic and radiotelephonic transmission and reception apparatus; radiobroadcasting and television transmission and reception apparatus, and parts thereof (con.):				
		Other (con.):				
		Solid-state (tubeless) radio receivers (con.):				
		Other (con.):				
685.14 (con.)		Entertainment broadcast band receivers (con.):				
		Other:				
		AC only:				
	25	AM only.....	No.			
		Other:				
		Without speaker(s):				
	30	Stereo 1/....	No.			
	36	Other.	No.			
		Other:				
	40	Stereo 1/....	No.			
	46	Other.	No.			
		Other:				
		Broadcast band only:				
	50	AM only....	No.			
	57	FM and AM/FM.....	No.			
	61	Other.....	No.			
685.16		Other.....	.....	7.1% ad val.	6% ad val.(D,I) Free (A*,E)	35% ad val.
		Radio receivers, other than radio paging receivers, capable of receiving signals on frequencies of 2/:				
		30 Mhz and below:				
	71	Citizen Band (CB).....	No.			
	73	Other.....	No.			
	74	Above 30 Mhz, but not over 400 Mhz.....	No.			
	76	Above 400 Mhz, but not over 1,000 Mhz...	No.			
	85	Above 1,000 Mhz.....	No.			
	86	Radio paging receivers....	No.			
		Transceivers:				
		Citizens band:				
685.18		Hand-held.....		6% ad val.	Free (A*,E,I)	35% ad val.
	10	Valued not over $7.50 each.....	No.			
	12	Other.....	No.			
685.20		Other.....	.....	6% ad val.	Free (A,E,I)	35% ad val.
	02	Capable of receiving signals on bands other than Citizens Band (CB).....	No.			
		Other:				
	15	AC only.....	No.			
	25	DC only.....	No.			
	35	Other.....	No.			
						(3rd supp. 9/1/85)

1/ See part 5 statistical headnote 3.
2/ See part 5 statistical headnote 5.

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Item	Stat. Suf-fix	Articles	Units of Quantity	Rates of Duty		
				1	Special	2
		Radiotelegraphic and radiotelephonic transmission and reception apparatus, etc. (con.):				
		Radiotelegraphic and radiotelephonic transmission and reception apparatus; radiobroadcasting and television transmission and reception apparatus, and parts thereof (con.):				
		Other (con.):				
		Transceivers (con.):				
685.22	00	Low-power radiotelephonic transceivers operating on frequencies from 49.82 to 49.90 mHz	No.	3.3% ad val.	2.4% ad val.(D) Free (A,E,I)	35% ad val.
685.24		Other transceivers		6% ad val.	Free (A,E,I)	35% ad val.
	40	Hand-held	No.			
		Other:				
	41	Marine VHF-FM radio transceivers 1/	No.			
	43	Other	No.			
		Other transmission apparatus incorporating reception apparatus:				
685.25	00	Cordless handset telephones	No.	6% ad val.	Free (A*,E,I)	35% ad val.
685.28	00	Other	X	6% ad val.	Free (A,E,I)	35% ad val.
		Other:				
685.30	00	Transmitters	No.	6% ad val.	Free (A,E,I)	35% ad val.
685.32		Other, including parts		6% ad val.	Free (A*,E,I)	35% ad val.
		Antennas:				
	60	Citizens Band (CB)	No.			
	62	Other	No.			
	77	Other	X			
685.34	00	Radiotelegraphic and radiotelephonic transmission and reception apparatus, and radiobroadcasting transmission and reception apparatus, if certified for use in civil aircraft (see headnote 3, part 6C, schedule 6)	No.	Free		
685.36		Radio-phonograph combinations		4.9% ad val.	4.4% ad val.(D) Free (E,I)	35% ad val.
	20	Console/consolette	No.			
	55	Other	No.			
		Record players, phonographs, record changers, turntables, and tone arms, and parts of the foregoing:				
685.37	00	Tone arms and parts thereof	X	4.3% ad val.	3.9% ad val.(D) Free (A,E,I)	35% ad val.
685.38		Other		4.3% ad val.	3.9% ad val.(D) Free (A,E,I)	35% ad val.
		Record players and phonographs complete with amplifier(s) and speaker(s):				
	25	Stereo 2/	No.			
	35	Other	No.			
	47	Automatic record changers	No.			
	48	Automatic turn-tables (single records only)	No.			
	50	Other record players and turn-tables	No.			
	60	Parts	X			
685.39	00	Telephone answering machines, and parts thereof	X	4.3% ad val.	3.9% ad val.(D) Free (A,E,I)	35% ad val.

1/ See part 5 statistical headnote 8.
2/ See part 5 statistical headnote 3.

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Appendix B

Concordance of Tariff Schedules of the United States Numbers, Schedule B Numbers, Standard Industrial Classification Numbers, Standard International Trade Classification Numbers, and Customs Cooperation Council Nomenclature Numbers

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Radio apparatus: TSUS item numbers, Schedule B numbers, SIC numbers, SITC numbers, and CCCN numbers included in this commodity group

TSUS item No.	Schedule B No.	SIC No.	SITC No.	CCCN No.
685.12	685.26 (pt.)	3651 (pt.)	762.1 (pt.)	85.15 (pt.)
685.14	685.26 (pt.)	3651 (pt.)	762.2 (pt.)	85.15 (pt.)
		3662 (pt.)	762.8 (pt.)	
685.16	685.26 (pt.)	3651 (pt.)	762.1 (pt.)	85.15 (pt.)
		3662 (pt.)	762.8 (pt.)	
685.18	685.27 (pt.)	3662 (pt.)	764.3 (pt.)	85.15 (pt.)
685.20	685.27 (pt.)	3662 (pt.)	764.3 (pt.)	85.15 (pt.)
685.22	685.27 (pt.)	3662 (pt.)	764.3 (pt.)	85.15 (pt.)
685.24	685.27 (pt.)	3662 (pt.)	764.3 (pt.)	85.15 (pt.)
684.25	685.27 (pt.)	3662 (pt.)	762.2 (pt.)	85.15 (pt.)
			762.8 (pt.)	
			764.3 (pt.)	
			764.8 (pt.)	
			764.9 (pt.)	
684.28	685.27 (pt.)	3651 (pt.)	762.1 (pt.)	85.15 (pt.)
		3662 (pt.)	762.2 (pt.)	
			762.8 (pt.)	
			762.3 (pt.)	
			762.8 (pt.)	
			762.9 (pt.)	
685.30	685.27 (pt.)	3662 (pt.)	762.2 (pt.)	85.15 (pt.)
			762.8 (pt.)	
			762.3 (pt.)	
			762.8 (pt.)	
			762.9 (pt.)	
685.32	685.27 (pt.)	3662 (pt.)	762.2 (pt.)	85.15 (pt.)
			762.8 (pt.)	
			762.3 (pt.)	
			762.8 (pt.)	
			762.9 (pt.)	
685.34	685.27 (pt.)	3662 (pt.)	762.2 (pt.)	85.15 (pt.)
			762.8 (pt.)	
			762.3 (pt.)	
			762.9 (pt.)	

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Appendix C

Statistical Tables

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Table 1.--Radio apparatus: U.S. producers' shipments, exports of domestic merchandise, imports for consumption, and apparent consumption, 1980-84

Year	Producers' shipments 1/	Exports	Imports	Apparent consumption 1/	Ratio of imports to consumption 1/
	1,000 dollars				Percent
1980	4,425,708	818,087	992,694	4,600,315	21.6
1981	4,605,295	1,018,933	1,255,279	4,841,641	25.9
1982	4,720,427	1,077,574	1,418,241	5,061,094	28.0
1983	5,410,795	1,213,166	1,820,222	6,017,851	30.2
1984	6,050,642	1,282,271	2,186,667	6,955,038	31.4

1/ Estimated by the staff of the U.S. International Trade Commission.

Source: Compiled from official statistics of the U.S. Department of Commerce, except as noted.

Table 2.--Radio receivers: U.S. producers' shipments, exports of domestic merchandise, imports for consumption, and apparent consumption, 1980-84

Year	Producers' shipments 1/	Exports	Imports	Apparent consumption 1/	Ratio of imports to consumption 1/
	1,000 dollars				Percent
1980	1,150,685	100,880	613,714	1,663,519	37.0
1981	1,263,875	124,929	714,053	1,852,999	38.5
1982	1,323,013	114,762	743,362	1,951,613	38.1
1983	1,506,412	113,091	857,180	2,250,501	38.1
1984	1,714,782	144,737	995,413	2,565,458	38.8

1/ Estimated by the staff of the U.S. International Trade Commission.

Source: Compiled from official statistics of the U.S. Department of Commerce, except as noted.

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Table 3.--Radio tranceivers: U.S. producers' shipments, exports of domestic merchandise, imports for consumption, and apparent consumption, 1980-84

Year	Producers' shipments 1/	Exports	Imports	Apparent consumption 1/	Ratio of imports to consumption 1/
	1,000 dollars				Percent
1980	1,150,684	238,037	130,337	1,042,984	12.5
1981	1,192,460	276,219	171,024	1,087,265	15.7
1982	1,222,272	287,238	162,644	1,097,678	14.8
1983	1,279,299	252,991	140,042	1,166,350	12.0
1984	1,343,264	237,144	262,290	1,368,410	19.2

1/ Estimated by the staff of the U.S. International Trade Commission.

Source: Compiled from official statistics of the U.S. Department of Commerce, except as noted.

Table 4.--Other radio apparatus: U.S. producers' shipments, exports of domestic merchandise, imports for consumption, and apparent consumption, 1980-84

Year	Producers' shipments 1/	Exports	Imports	Apparent consumption 1/	Ratio of imports to consumption 1/
	1,000 dollars				Percent
1980	2,124,339	479,170	248,643	1,893,812	13.1
1981	2,148,960	617,785	370,202	1,901,377	19.5
1982	2,176,142	675,574	512,236	2,012,804	25.4
1983	2,625,084	847,085	823,000	2,600,999	31.6
1984	2,992,596	900,390	928,964	3,021,170	30.7

1/ Estimated by the staff of the U.S. International Trade Commission.

Source: Compiled from official statistics of the U.S. Department of Commerce, except as noted.

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Table 5.--Radio apparatus: U.S. imports for consumption, by principal sources, 1980-84

(In thousands of dollars)

Source	1980	1981	1982	1983	1984
Japan	351,085	434,923	473,239	557,442	724,982
Hg Kong	147,067	173,106	198,803	266,217	332,231
China t	107,520	123,475	161,441	227,085	208,196
Mexico	33,248	61,497	93,705	170,122	178,991
Canada	42,612	65,614	80,700	78,830	154,720
Singapr	108,856	154,353	114,653	105,029	134,671
Kor Rep	68,296	73,966	96,304	177,545	127,693
Sweden	12,897	13,806	28,855	30,299	72,823
Brazil	36,719	60,640	49,432	64,346	72,777
Malaysa	40,755	46,696	57,922	58,488	62,795
All other	43,639	47,203	63,188	84,819	116,788
Total	992,694	1,255,279	1,418,241	1,820,222	2,186,667

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 6.--Radio receivers: U.S. imports for consumption, by principal sources, 1980-84

(In thousands of dollars)

Source	1980	1981	1982	1983	1984
Japan	254,519	293,917	283,693	277,924	310,802
Hg Kong	135,692	151,705	173,267	178,818	224,133
Mexico	240	13,144	43,878	128,062	130,288
Brazil	36,663	60,615	49,428	64,195	72,494
China t	58,451	50,687	42,452	54,723	62,759
Singapr	56,483	65,673	69,146	60,770	59,373
Canada	761	7,881	19,595	14,584	39,401
Kor Rep	48,920	46,911	40,568	33,232	34,010
Malaysa	3,063	6,607	5,660	21,786	25,120
China M	110	2,338	3,628	3,936	8,950
All other	18,812	14,577	12,847	19,151	28,084
Total	613,714	714,053	743,362	857,180	995,413

Source: Compiled from official statistics of the U.S. Department of Commerce.

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Table 7.--Radio transceivers: U.S. imports for consumption, by principal sources, 1980-84

(In thousands of dollars)

Source	1980	1981	1982	1983	1984
Japan	51,040	66,190	58,807	59,210	133,198
China t	35,959	52,118	36,216	26,532	42,321
Kor Rep	17,987	24,878	39,390	29,536	32,944
Hg Kong	8,540	17,202	12,129	9,388	20,827
Canada	13,072	5,757	6,161	5,161	13,989
Mexico	2,578	3,307	6,494	4,800	10,347
Israel	324	23	606	2,960	4,400
Singapr	-	1/	84	97	1,308
Denmark	148	234	226	331	587
U King	241	283	243	426	553
All other	448	1,031	2,287	1,601	1,817
Total	130,337	171,024	162,644	140,042	262,290

1/ Less than 500.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 8.--Other radio apparatus: U.S. imports for consumption, by principal sources, 1980-84

(In thousands of dollars)

Source	1980	1981	1982	1983	1984
Japan	45,526	74,816	130,739	220,308	280,982
China t	13,110	20,671	82,773	145,830	103,116
Canada	28,779	51,976	54,945	59,085	101,330
Hg Kong	2,834	4,199	13,406	78,012	87,271
Singapr	52,373	88,680	45,422	44,162	73,990
Sweden	12,708	13,393	28,220	29,449	72,037
Kor Rep	1,389	2,177	16,346	114,778	60,739
Mexico	30,430	45,045	44,132	37,260	38,355
Malaysa	37,685	39,923	52,262	36,702	37,648
Fr Germ	5,573	10,205	18,889	20,245	27,451
All other	18,235	19,116	25,101	37,171	46,045
Total	248,643	370,202	512,236	823,000	928,964

Source: Compiled from official statistics of the U.S. Department of Commerce.

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Table 9.--Radio apparatus: U.S. exports of domestic merchandise, by principal markets, 1980-84

(In thousands of dollars)

Market	1980	1981	1982	1983	1984
Canada	105,506	139,283	139,365	152,830	193,147
Mexico	44,365	60,467	47,418	106,814	191,867
S Arab	57,245	62,960	55,790	119,251	129,550
Brazil	33,665	48,106	46,019	72,081	82,670
U King	47,222	53,925	49,805	59,637	61,596
Fr Germ	66,203	97,631	70,623	64,447	60,868
Egypt	22,362	13,037	32,908	42,189	38,553
Kor Rep	39,981	43,664	66,685	50,378	32,796
All other	401,538	499,859	568,961	545,539	491,224
Total	818,087	1,018,933	1,077,574	1,213,166	1,282,271

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 10--Radio receivers: U.S. exports of domestic merchandise, by principal markets, 1980-84

(In thousands of dollars)

Market	1980	1981	1982	1983	1984
Canada	43,435	68,613	64,033	69,369	95,624
U King	6,313	3,772	4,284	4,645	6,989
Fr Germ	1,977	2,488	2,866	2,796	3,493
Mexico	8,993	11,058	5,447	2,513	3,282
Austral	1,108	1,691	1,397	2,848	2,647
Thailnd	452	267	175	1,509	2,124
Kor Rep	3,067	661	1,017	798	2,104
Brazil	636	1,649	4,459	7,828	1,952
All other	34,898	34,729	31,084	20,785	26,521
Total	100,880	124,929	114,762	113,091	144,737

Source: Compiled from official statistics of the U.S. Department of Commerce.

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Table 11--Radio transceivers: U.S. exports of domestic merchandise, by principal markets, 1980-84

(In thousands of dollars)

Market	1980	1981	1982	1983	1984
S Arab------	11,910	20,693	14,266	38,330	49,341
Canada------	18,110	17,538	15,583	13,947	18,675
U King------	18,238	18,283	15,992	14,018	12,473
Arab Em-----	777	1,217	2,438	2,346	10,973
Nigeria-----	2,148	3,173	2,546	2,263	7,968
Egypt-------	2,856	3,971	5,526	6,256	6,314
Kor Rep-----	9,531	15,000	32,258	13,220	6,270
Fr Germ-----	13,898	15,943	9,682	6,238	5,789
Thailnd-----	3,759	4,176	4,403	5,209	5,683
Singapr-----	3,432	5,094	4,072	4,705	4,817
All other---	153,377	171,131	180,472	146,458	108,842
Total---	238,037	276,219	287,238	252,991	237,144

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 12--Other radio apparatus: U.S. exports of domestic merchandise, by principal markets, 1980-84

(In thousands of dollars)

Market	1980	1981	1982	1983	1984
Mexico------	24,637	41,287	36,736	102,658	187,151
Brazil------	27,158	42,450	39,550	62,962	80,316
S Arab------	43,096	41,389	39,241	80,261	79,051
Canada------	43,960	53,132	59,750	69,514	78,848
Fr Germ-----	50,329	79,201	58,076	55,413	51,586
U King------	22,671	31,870	29,528	40,973	42,134
Egypt-------	19,451	8,972	26,343	35,397	31,345
Kor Rep-----	27,383	28,003	33,410	36,360	24,423
France------	6,344	10,639	11,395	22,818	23,806
Japan-------	7,284	17,166	23,456	25,004	21,263
All other---	206,858	263,676	318,090	315,724	280,468
Total---	479,170	617,785	675,574	847,085	900,390

Source: Compiled from official statistics of the U.S. Department of Commerce.

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SUMMARIES OF TRADE AND TARIFF INFORMATION

USITC PUBLICATION 841

COMPLETE LIST OF SUMMARIES PUBLISHED TO DATE IN SCHEDULE 6

Control No.	Publication date	Title
6-4-1	Mar. 1981	Construction, Mining, and Material-Handling Machinery (Supplement--December 1984)
6-5-2	Apr. 1981	Ignition Equipment and Lighting Equipment for Motor Vehicles; Batteries (Supplement--June 1983)
6-5-3	May 1981	Electrical Capacitors and Resistors (Supplement--July 1983)
6-4-4	May 1981	Metalworking Machine Tools (Supplement--Dec. 1984)
6-4-5	June 1981	Typewriters Not Incorporating a Calculating Mechanism (Supplement--July 1983)
6-6-6	June 1981	Motorcycles (Supplement--October 1984)
6-4-7	July 1981	Printing and Typesetting Machinery and Printing Plates (Supplement--October 1984)
6-6-8	July 1981	Rail Locomotives and Rolling Stock (Supplement--August 1983)
6-5-9	July 1981	Television Cameras (Supplement--June 1983)
6-4-10	July 1981	Ball and Roller Bearings and Parts (Supplement--September 1983)
6-5-11	July 1981	Electrical Equipment for Making, Breaking, Protecting, or Connecting Circuits (Supplement--August 1983)
6-5-12	Aug. 1981	Radio Apparatus (Supplement--September 1983)
6-4-13	Sept. 1981	Computers, Calculators, and Data Processing Machines (Supplement--August 1983)
6-4-14	Sept. 1981	Sewing Machines (Supplement--August 1984)
6-1-15	Feb. 1982	Ores and Concentrates and Other Metalbearing Materials
6-5-16	Feb. 1982	Electronic Tubes and Parts (Supplement--October 1983)
6-5-17	Mar. 1982	Portable Electric Lamps and Electric Lamp Bulbs (Supplement--October 1983)
6-2-18	Apr. 1982	Aluminum
6-2-19	Apr. 1982	Lead and Zinc

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COMPLETE LIST OF SUMMARIES PUBLISHED TO DATE IN SCHEDULE 6--Continued

Control No.	Publication date	Title
6-4-20	May 1982	Foundry Machinery and Metal Rolling Mills (Supplement--September 1984)
6-4,5-21	July 1982	Certain Consumer and Industrial Electrical Products (Supplement--July 1984)
6-5-22	July 1982	Semiconductors (Supplement--August 1984)
6-5-23	July 1982	Microphones, Loudspeakers, and Electric Sound and Visual Signaling Apparatus (Supplement-November 1984)
6-6-24	Aug. 1982	Pleasure Boats (Supplement--Dec. 1984)
6-6-25	Aug. 1982	Floating Structures
6-6-26	Aug. 1982	Certain Motor-Vehicle Parts
6-4-27	Aug. 1982	Pulp and Paper Machinery and Bookbinding Machinery (Supplement--Oct. 1984)
6-5-28	Sept. 1982	Telephone and Telegraph Apparatus and Radio Navigational Aid, Radar, and Radio Remote Control Apparatus
6-3-29	Sept. 1982	Fasteners and Hardware (Supplement--Oct. 1984)
6-4,5-30	Sept. 1982	Certain Electrical Household and Commercial Appliances and Parts
6-2-31	Oct. 1982	Precious Metals
6-5-32	Nov. 1982	Electric Power Machinery and Equipment (Supplement--June 1984)
6-5-33	Dec. 1982	Television Apparatus, Except Cameras (Supplement--September 1984)
6-3-34	Jan. 1983	Handtools, Cutlery, and Related Products
6-2-35	Jan. 1983	Copper
6-4-36	Feb. 1983	Scales and Weighing Machinery
6-4-37	Mar. 1983	Office Copiers and Miscellaneous Office Machines
6-3-38	May 1983	Certain Metal Products
6-4-39	May 1983	Internal Combustion Engines and Parts
6-4,5-40	June 1983	Industrial Food- , Beverage- , and Tobacco-Processing and Related Machinery and Parts
6-6-41	June 1983	Forklift Trucks and Similar Industrial Vehicles and Parts Thereof
6-4-42	July 1983	Wrapping, Packaging, and Can-Sealing Machinery
6-2-43	Aug. 1983	Certain Base Metals
6-4-44	Sept. 1983	Textile Machinery and Parts
6-2-45	Oct. 1983	Ferroalloys

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COMPLETE LIST OF SUMMARIES PUBLISHED TO DATE IN SCHEDULE 6--Continued

Control No.	Publication date	Title
6-6-46	Nov. 1983	Aircraft and Spacecraft and Parts
6-4-47	Dec. 1983	Boilers, Turbines, Related Machinery, and Parts
6-4-48	Feb. 1984	Centrifuges and Filtering and Purifying Equipment
6-6-49	June 1984	Automobiles, Trucks, Buses, and Bodies and Chassis of the Foregoing Motor Vehicles
6-4-50	June 1984	Machines Used for Molding and Forming Rubber or Plastics
6-4-51	June 1984	Certain Mechanical Power Transmission Equipment
6-4-52	Aug. 1984	Agricultural and Horticultural Machinery, Lawnmowers, and Tractors
6-4-53	Sept. 1984	Miscellaneous Parts of Machines, N.S.P.F.
6-4-54	Sept. 1984	Industrial Heat Treatment Equipment
6-4-55	Oct. 1984	Pumps for Liquids and Parts
6-4-56	Oct. 1984	Taps, Cocks, Valves, and Similar Devices and Parts
6-6-57	Oct. 1984	Miscellaneous Vehicles and Transportation Related Equipment
6-4-58	Nov. 1984	Fans, Blowers, Compressors, Air Pumps and Vacuum Pumps, Air-Conditioning and Refrigeration Machines
6-4-59	Nov. 1984	Hand-Directed or -Controlled Power Tools
6-4-60	Nov. 1984	Miscellaneous Machines and Equipment
6-4-61	Nov. 1984	Miscellaneous Non-Metalworking and Non-Metal Processing Machines
6-2-62	Jan. 1985	Iron and Steel

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